

Utah Class IV and VI Landfill Permit Application Form

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Part I General information		APPLICANT PLEASE COMPLETE ALL SECTIONS		UTAH DIVISION OF SOLID & HAZARDOUS WASTE	
Landfill Type	<input type="checkbox"/> Class IVa <input type="checkbox"/> Class VI	<input checked="" type="checkbox"/> Class IVb	Application Type <input type="checkbox"/> New Application <input checked="" type="checkbox"/> Renewal Application	<input type="checkbox"/> Facility Expansion <input type="checkbox"/> Modification	
For Renewal Applications Facility Expansion Applications and Modifications Enter Current Permit Number				0106	2010.01826
III Facility Name and Location					
Legal Name of Facility Antimony Town Class IVb Landfill					
Site Address (street or directions to site) 500 East Parker Mountain Road				County Garfield County	
City Antimony		Zip Code 84712		Telephone (435) 624-3300	
Township 31 S	Range 2 W	Section(s) 10	Quarter/Quarter Section SW	Quarter Section	
Mam Gate Latitude degrees 11 minutes 59 seconds 20		Longitude degrees 38 minutes 7 seconds 4			
IV Facility Owner(s) Information					
Legal Name of Facility Owner Antimony Town					
Address (mailing) P O Box 120046					
City Antimony		State UT	Zip Code 84712	Telephone (435) 624-3300	
V Facility Operator(s) Information					
Legal Name of Facility Operator Antimony Town					
Address (mailing) P O Box 120046					
City Antimony		State UT	Zip Code 84712	Telephone (435) 624-3249	
VI Property Owner(s) Information					
Legal Name of Property Owner Antimony Town					
Address (mailing) P O Box 120046					
City Antimony		State UT	Zip Code 84712	Telephone (435) 624-3300	
VII Contact Information					
Owner Contact Leon Twitchell			Title Antimony Town Boardmember		
Address (mailing) P O Box 120024					
City Antimony		State UT	Zip Code 84712	Telephone (435) 624-3227	
Email Address			Alternative Telephone (cell or other)		
Operator Contact Calvin Gleave			Title Landfill Operator		
Address (mailing) P O Box 120055					
City Antimony		State UT	Zip Code 84712	Telephone (435) 624-3218	
Email Address			Alternative Telephone (cell or other)		
Property Owner Contact Shannon Allen			Title Antimony Town Mayor		
Address (mailing) P O Box 120083					
City Antimony		State UT	Zip Code 84712	Telephone (435) 624-3285	
Email Address sjallen@color-country.net			Alternative Telephone (cell or other)		

Utah Class IV and VI Landfill Permit Application Form

Part I General Information (Continued)

VIII Waste Types (check all that apply)

☐ Landfill will accept all wastes allowed in Class IV or VI landfills Or
landfill will accept only the following wastes

Waste Type	Combined Disposal Unit	Monofill Unit
<input checked="" type="checkbox"/> Construction & Demolition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Tires	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Yard Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Animals	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Contaminated Soil	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other _____	<input type="checkbox"/>	<input type="checkbox"/>

Note Disposal of dead animals must be approved by the Executive Secretary

IX Facility Area

Facility Area	<u>10</u>	acres
Disposal Area	<u>7</u>	acres
Design Capacity		
Years	<u>19</u>	
Cubic Yards	_____	
Tons	<u>235</u>	

X Fee and Application Documents

Indicate Documents Attached To This Application

☐ Application Fee Amount \$

Class VI Special Requirements

<input checked="" type="checkbox"/> Facility Map or Maps	<input checked="" type="checkbox"/> Facility Legal Description	<input checked="" type="checkbox"/> Plan of Operation	<input checked="" type="checkbox"/> Waste Description
<input type="checkbox"/> Ground Water Report	<input checked="" type="checkbox"/> Closure Design	<input checked="" type="checkbox"/> Cost Estimates	<input checked="" type="checkbox"/> Financial Assurance


☐ Documents required by UCA 19-6-108(9) and (10)

I HEREBY CERTIFY THAT THIS INFORMATION AND ALL ATTACHED PAGES ARE CORRECT AND COMPLETE

Signature of Authorized Owner Representative

Title **Mayor**

Date **May 22, 2010**



Shannon D. Allen

Name typed or printed

Address 1151 N Mam Street P O Box 120083
Antimony UT 84712

Signature of Authorized Land Owner Representative (if applicable)

Title

Date

Name typed or printed

Address

Signature of Authorized Operator Representative (if applicable)

Title

Date

Name typed or printed

Address

Utah Class IV and VI Landfill Permit Application Checklist

Important Note The following checklist is for the permit application and addresses only the requirements of the Division of Solid and Hazardous Waste. Other federal, state, or local agencies may have requirements that the facility must meet. The applicant is responsible to be informed of, and meet, any applicable requirements. Examples of these requirements may include obtaining a conditional use permit, a business license, or a storm water permit. The applicant is reminded that obtaining a permit under the *Solid Waste Permitting and Management Rules* does not exempt the facility from these other requirements.

An application for a permit to construct and operate a landfill is the documentation that the landfill will be located, designed, constructed, and operated to meet the requirements of Rules R315-305 of the *Utah Solid Waste Permitting and Management Rules* and the *Utah Solid and Hazardous Waste Act* (UCA 19-6-101 through 123). The application should be written to be understandable by regulatory agencies, landfill operators, and the general public. The application should also be written so that the landfill operator, after reading it, will be able to operate the landfill according to the requirements with a minimum of additional training.

Copies of the *Solid Waste Permitting and Management Rules*, the *Utah Solid and Hazardous Waste Act*, along with many other useful guidance documents can be obtained by contacting the Division of Solid and Hazardous Waste at 801-536-0200. Most of these documents are available on the Division's web page at www.hazardouswaste.utah.gov. Guidance documents can be found at the solid waste section portion of the web page.

When the application is determined to be complete, the original complete application and one copy of the complete application are required along with an electronic copy.

Part II Application Checklist

I. Facility General Information	
Description of Item	Location In Document
Ia. General Information - All Facilities	
Completed Part I General information form above	
General description of the facility (R315-310-3(1)(b))	Page 1
Legal description of property (R315-310-3(1)(c))	Page 2
Proof of ownership, lease agreement, or other mechanism (R315-310-3(1)(c))	Page 1
If the permit application is for a Class IV landfill, a demonstration that the landfill is not a commercial facility	Page 9
Waste type and anticipated daily volume (R315-310-3(1)(d))	Page 1
Intended schedule of construction (R315-302-2(2)(a))	N/A
Ib. General Information - New Or Laterally Expanding Facilities	
Documentation that the Historical Survey requirements of R315-302-1(2)(f) have been met (R315-305-4(1)(b)(vi))	
Name and address of all property owners within 1000 feet of the facility boundary (R315-310-3(2)(i))	
Documentation that a notice of intent to apply for a permit has been sent to all property owners listed above (R315-310-3(2)(ii))	

Utah Class IV and VI Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
Name of the local government with jurisdiction over the facility site (R315-310-3(2)(iii))	Page 1
/c. Location Standards - New Or Laterally Expanding Class IVa Landfills (R315-305-4(1)(a))	
Land use compatibility	
Maps showing the existing land use, topography, residences, parks, monuments, recreation areas or wilderness areas within 1000 feet of the site boundary	
Certifications that no ecologically or scientifically significant areas or endangered species are present in site area	
Maps showing the location of dwellings, residential areas, other structures, and historic structures	
List of airports within five miles of facility and distance to each	
Geology	
Geologic maps showing significant geologic features, faults, and unstable areas	
Maps showing site soils	
Surface water	
Magnitude of 24 hour 25 year and 100 year storm events	
Average annual rainfall	
Maximum elevation of flood waters proximate to the facility	
Maximum elevation of flood water from 100 year flood for waters proximate to the facility	
Wetlands	
Ground water	
/d Location Standards - New Or Laterally Expanding Class IVb and VI Landfills	
Floodplains as specified in R315-302-1(2)(c)(ii) (R315-305-4(1)(b)(i))	
Wetlands as specified in R315-302-1(2)(d) (R315-305-4(1)(b)(iii))	
The landfill is located so that the lowest level of waste is at least ten feet above the historical high level of ground water (R315-305-4(1)(b)(iii))	
Geology as specified in R315-302-1(2)(b)(i) and (iv) (R315-305-4(1)(b)(iv))	
/e Additional Location Standards - New Or Laterally Expanding Class IVb and VI Landfills Or Landfills Requesting That Dead Animals Be Added As A New Waste Stream (R315-305-4(1)(a)(v))	
Maps showing the existing land use, topography, residences, parks, monuments, recreation areas or wilderness areas within 1000 feet of the site boundary	

Utah Class IV and VI Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
Certifications that no ecologically or scientifically significant areas or endangered species are present in site area	
Maps showing the location of dwellings, residential areas, other structures, and historic structures	
List of airports within five miles of facility and distance to each	
If Plan Of Operations - All Facilities (R315-310-3(1)(e) and R315-302-2(2))	
Description of on-site waste handling procedures and an example of the form that will be used to record the weights or volumes of waste received (R315-302-2(2)(b) And R315-310-3(1)(f))	Exhibit #8
Schedule for conducting inspections and monitoring, and examples of the forms that will be used to record the results of the inspections and monitoring (R315-302-2(2)(c), R315-302-2(5)(a), and R315-310-3(1)(g))	Page 5
Contingency plans in the event of a fire or explosion (R315-302-2(2)(d))	Page 6
Plan to control fugitive dust generated from roads, construction, general operations, and covering the waste (R315-302-2(2)(g))	N/A
Plan for litter control and collection (R315-302-2(2)(h))	Page 5
Procedures for excluding the receipt of prohibited hazardous or PCB containing waste (R315-302-2(2)(j))	Page 7
Procedures for controlling disease vectors (R315-302-2(2)(k))	Page 7
A plan for alternative waste handling (R315-302-2(2)(l))	Page 8
A general training plan for site operations (R315-302-2(2)(o))	Page 8
Any recycling programs planned at the facility (R315-303-4(6))	Page 8
Any other site specific information pertaining to the plan of operation required by the Executive Secretary (R315-302-2(2)(p))	
Ig. Additional Plan Of Operation Requirements - Class IVa Facilities	
Corrective action programs to be initiated if ground water is contaminated (R315-302-2(2)(e))	Page 6
II. Facility Technical Information	
I/a Maps - All Facilities	
Topographic map drawn to the required scale with contours showing the boundaries of the landfill unit, ground water monitoring well locations, gas monitoring points, and the borrow and fill areas (R315-310-4(2)(a)(i))	Exhibit #5
Most recent U S Geological Survey topographic map, 7-1/2 minute series, showing the waste facility boundary, the property boundary, surface drainage channels, any existing utilities and structures within one-fourth mile of the site, and the direction of the prevailing winds (R315-310-4(2)(a)(ii))	Exhibit #1,2,6

Utah Class IV and VI Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
//b Geohydrological Assessment - Class IVa Landfills (R315-310-4(2)(b))	
Local and regional geology and hydrology including faults, unstable slopes and subsidence areas on site (R315-310-4(2)(b)(i))	
Evaluation of bedrock and soil types and properties including permeability rates (R315-310-4(2)(b)(ii))	
Depth to ground water (R315-310-4(2)(b)(iii))	
Quantity, location, and construction of any private or public wells on-site or within 2,000 feet of the facility boundary (R315-310-4(2)(b)(v))	
Tabulation of all water rights for ground water and surface water on-site and within 2,000 feet of the facility boundary (R315-310-4(2)(b)(vi))	
Identification and description of all surface waters on-site and within one mile of the facility boundary (R315-310-4(2)(b)(vii))	
For an existing facility, identification of impacts upon the ground water and surface water from leachate discharges (R315-310-4(2)(b)(viii))	
Calculation of site water balance (R315-310-4(2)(b)(ix))	
//c Engineering Report, Plans, Specifications, And Calculations - All Facilities	
Unit design to include cover design, fill methods, and elevation of final cover including plans and drawings signed and sealed by a professional engineer registered in the State of Utah, when required (R315-310-3(1)(b) and R315-310-4(2)(c)(iii))	Page 5
Design and location of run-on and run-off control systems (R315-310-4(2)(c)(viii))	Page 10
Anticipated facility life and the basis for calculating the facility's life (R315-310-4(2)(c)(ii))	Page 10
Engineering reports required to meet the location standards of R315-305-4 including documentation of any demonstration or exemption made for any location standard (R315-310-4(2)(c)(i))	N/A
Identification of borrow sources for final cover (R315-310-4(2)(c)(iv))	Page 11
Run-off collection, treatment, and disposal and documentation to show that any treatment system is being or has been reviewed by the Division of Water Quality (R315-310-4(2)(c)(v) and R315-310-3(1)(i))	Page 10
//d Closure Requirements - All Facilities	
CLOSURE PLAN (R315-310-3(1)(h))	Page 8, 12-14
Closure schedule (R315-310-4(2)(d)(i))	Page 13
Design of final cover (R315-310-4(2)(c)(iii))	Page 13

Utah Class IV and VI Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
Capacity of site in volume and tonnage (R315-310-4(2)(d)(ii))	Page 12
Final inspection by regulatory agencies (R315-310-4(2)(d)(iii))	Page 12
IIe. Post-Closure Requirements- All Facilities	
POST-CLOSURE CARE PLAN (R315-310-3(1)(h))	Page 13
Changes to record of title, land use, and zoning restrictions (R315-310-4(2)(e)(v))	Page 13
Maintenance activities to maintain cover and run-on/run-off control systems (R315-310-4(2)(e)(iii))	Page 13
List the name, address, and telephone number of the person or office to contact about the facility during the post-closure care period (R315-310-4(2)(e)(vi))	Page 14
IIIf. Financial Assurance - All Facilities (R315-310-3(1)(j))	
Identification of closure costs including cost calculations (R315-310-4(2)(d)(iv))	Page 15
Identification of post-closure care costs including cost calculations (R315-310-4(2)(e)(iv))	Page 15
Identification of the financial assurance mechanism that meets the requirements of Rule R315-309 and the date that the mechanism will become effective (R315-309-1(1) and R315-310-3(1)(j))	Page 15

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**PERMIT RENEWAL APPLICATION
ANTIMONY TOWN CLASS IVb
LANDFILL**

April 2010

Prepared by: Antimony Town

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EXHIBITS

EXHIBIT #1	General Vicinity Map
EXHIBIT #2	Project Location Map
EXHIBIT #3	Patent for Property
EXHIBIT #4	Plat for Property
EXHIBIT #5	Landfill Map (Current Status)
EXHIBIT #6	Topographic Sketch
EXHIBIT #7	Site Plan
EXHIBIT #8	Daily Record Form
EXHIBIT #9	Hazardous/PCB Waste Record Form
EXHIBIT #10	Quarterly Inspection Log

APPLICATION

INTRODUCTION

This report serves as the application for the Antimony Town IVb Landfill / Dead Animal Pit located approximately ½ mile east of Antimony, Utah. The purpose of the application is to comply with R315-310-8 Administrative Rules of the Utah Solid and Hazardous Waste Committee, Utah Department of Environmental Quality.

Antimony Town currently owns approximately 10 acres and operates a Class IV b Landfill / Dead Animal Pit. The facility complies with Garfield County's solid waste management plan and is capable of servicing the community's current and future needs. The site is located in an area which accommodates livestock interests and permits monitoring on a regular basis. In addition, the site is relatively isolated, has regular topography, and has positive characteristics when considering precipitation and available cover material. Exhibit 1 is a general vicinity map depicting the site.

RESPONSIBLE PARTY

The applicant property owner and responsible party for site operation is

Antimony Town
P O Box 120046
Antimony, UT 84712
(435) 624-3300

Attn: Leon Twitchell, Antimony Town Board
Phone: (435) 624-3227

GENERAL DESCRIPTION

The Antimony Town Class IV b Landfill / Dead Animal Pit is a natural attenuation facility designed to fulfill the current and future inert solid waste disposal needs of Antimony Town. The facility encompasses a total of 9.99 acres and contemplates service to Antimony and surrounding unincorporated areas. Annual average waste volumes are estimated at less than 5 tons per day, and precipitation is less than 15 inches per year. Facility plans are included in other sections of this document.

LEGAL DESCRIPTION

The site is legally described as the NW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 10, Township 31 South, Range 2 West, Salt Lake Base and Meridian. A project location map (Exhibit 2), a patent of the property (Exhibit 3) and a Plat of the property (Exhibit 4) further describe the location.

The facility's main gate is located on Dry Wash Road. Lands adjacent to the facility are considered multiple use land controlled by the Bureau of Land Management (BLM). The closest private land exists approximately $\frac{1}{2}$ mile west of the site.

Garfield County's zoning ordinances apply in the vicinity of the Class IVb Landfill. A conditional use permit has been obtained by Garfield County, future zoning policies and ordinances will accommodate the Antimony Town Class IVb Landfill / Dead Animal Pits as they are adopted.

WASTE TYPES / AREA TO BE SERVED

Waste accepted by the Antimony Class IVb Landfill will be comprised of inert waste, construction/demolition waste, yard waste, dead animals, tires or tire derived material, and other waste approved by the Executive Secretary. However, no conditionally exempt small quantity generator hazardous waste is acceptable. The facility will also temporarily store recyclable materials prior to transportation to regional facilities. Special waste shall only be accepted and handled in accordance with Administrative Rule R315-315 and subject to the conditions of this permit.

Dead animals are the only special waste authorized for permanent disposal at the Antimony Class IVb Landfill. Dead animals received at the facility shall be deposited in a separate disposal trench and will be covered daily with a minimum of six (6) inches of earth to prevent odors and the propagation and harborage of rodents and insects.

Bulky wastes such as car bodies, furniture, and appliances will be stored in a separate area of the landfill for future disposal at a permitted Class I, II, or V Landfill or for recycling. At least annually, these items will be removed from the Antimony Class IVb Landfill for disposal or recycling. Currently, local scrap dealers are willing to accept such waste if assistance can be provided in loading the material. Other special wastes identified in the regulations will not be accepted at the facility unless specifically authorized by the Executive Secretary.

The service area may consist of all lands within the legal boundaries of Garfield County and a small number of nearby residents to Piute County. However, considering the location of the facility and additional solid waste disposal facilities being permitted in other areas of the County, it is anticipated the service area will be practically limited to residents of the Antimony area. Exhibit 2 illustrates the service area for the Antimony Class IVb Landfill.

REQUIRED FORMS

The daily record form required by Subsection R315-302-2 (3)(a)(1) is included as Exhibit 8 The form for recording inspections for hazardous and PCB wastes is included as Exhibit 9

INSPECTIONS

The owner or operator will inspect the facility to prevent malfunctions, deterioration, operation errors, and discharges which may result in the release of wastes to the environment or a threat to human health The owner or operator will conduct these inspections at least once each quarter and will complete the inspection log included as Exhibit 10 The inspection log will be kept for a minimum of 3 years from the date of inspection

The Executive Secretary or any duly authorized officer, employee or representative of the Board may, at any reasonable time the facility is open and upon presentation of acceptable credentials, enter the facility for inspection purposes Copies of all sampling, monitoring, and testing records, including photographic, video, and electronic data, and all data, communications, and results of the inspection shall be furnished to the owner and to the operator within a reasonable time An inspection report containing a list of any deficiencies and recommended actions will be furnished to the owner and to the operator within a reasonable time In addition, the inspector may also discuss problems and make preliminary recommendations prior to leaving the facility

FINANCIAL ASSURANCE

A detailed financial assurance plan as required by R315-309 is included in other sections of this document Prior to issuance of the permit for the Antimony Class IVb Landfill, Antimony Town has established a dedicated escrow account with satisfactory controls approved by the Executive Secretary for financial assurance sufficient to assure adequate closure Withdrawal and use of the funds shall be for closure operations and may be used for other landfill purposes if minimum financial assurance requirements for closure and post-closure are exceeded Antimony town reserves the right to alter the financial assurance mechanism as bonds, insurance, guarantees and other vehicles that become available

PLAN OF OPERATIONS

INTRODUCTION

This document constitutes the plan of operation for the Antimony Class IVb Landfill / Dead Animal Pit and is intended to comply with the Utah Division of Solid and Hazardous Waste Administrative Rules. Technical questions and comments may be directed to

Leon Twitchell
Antimony Town Board
P O Box 120024
Antimony, Utah 84712
(435) 624-3227

HANDLING PROCEDURE

One of the purposes of the Antimony Class IVb Landfill is to expand integrated solid waste management techniques near Antimony. The facility will be separated into various disposal areas including

- 1 Yard Wastes
- 2 Construction/Demolition Waste
- 3 Dead Animals
- 4 Recyclable Metal
- 5 Other Categories as Need and Markets Develop

Yard wastes are vegetative matter resulting from landscaping, land maintenance, and land clearing operations including grass clippings, prunings and other discarded material generated from yards, gardens, parks, farms and similar types of facilities. This type of waste does not include garbage, paper, plastics, sludge, septage or manure.

Yard wastes brought to the landfill will be placed in the designated area, separated by type (chippable tree limbs & bushes, grass clippings, and trees, trunks & stumps). The material will be held until it can be burned, chipped, or placed at the working face of the landfill. All burning will be done in accordance with Utah State Law and under the direction of the Town Fire Chief and during the periods of March 30th through May 30th, and September 15th through October 30th. No trash, rubbish, tires or oil may be used to start fires. Open burning is prohibited at the landfill, so yard wastes must be separated from the working area prior to burning. Separation may occur through the use of berms, trenches, roads, buffer zones, pits or appropriate fences. Trees, trunks and stumps may be cut and used for heating fuel, slope protection, barriers, or in other approved projects. Grass clippings and chipped material may be distributed for landscaping projects, soil amendments or other appropriate uses, including cover in other areas of the facility. Yard wastes which are not used or disposed of within one year will be transferred to the construction/demolition area for final disposal.

Construction/demolition material, including fencing designated for disposal, will be brought to the working face where it will be dumped and spread. Large timbers and recyclable lumber will be separated and held for reuse. This waste will be covered as needed for protection against fire hazard, blowing litter, odors and the propagation and harborage of rodents and insects. The cover material will be comprised of six (6) inches of earthen material. No fires will be permitted within this area of the landfill. Blowing litter will be collected on a routine basis.

Dead animals will be handled in accordance with Administrative Rules and descriptions below. Dead animals received at the facility shall be deposited in the bottom of a disposal trench designated for dead animals. All dead animals will be covered daily with a minimum of six (6) inches of earth to prevent odors and the propagation and harborage of rodents and insects. When the situation arises that dead animals must be delivered to the facility during closed periods, generators will be required to contact the owner and arrange for a landfill operator to be present during disposal. Permission for entry may be granted after pertinent information including date, name of generator, number and type of animals disposed of is provided.

Animals delivered to the landfill under this scenario will be covered with six (6) inches of earthen material no later than 24 hours after disposition.

Bulky wastes including large appliances, furniture, car bodies and recyclable metals may be stored at the facility temporarily while a sufficient volume is being collected for transportation to a recycling facility or end user. These materials will be stored for up to one year and then transported to a facility permitted for final disposal of these materials. Batteries and fluids will be removed from car bodies prior to acceptance at the landfill.

Recent change in the solid waste regulations permit acceptance of tire and/or tire-derived material at Class IVb facilities. Tires and tire-derived material will be received and treated as construction/demolition waste until such time that hauling to a recycler becomes feasible. No more than four (4) whole tires will be accepted at one time from any generator as provided in Section 320-3 of the Rules.

Equipment to be used at the facility will consist primarily of a grader, a dump truck, a bulldozer, and a backhoe hired by Antimony Town. When additional equipment is needed, it will be hired by Antimony Town. Chippers and other processing equipment will be acquired as funds and needs dictate.

INSPECTIONS AND MONITORING

At least one operator should be on site during all times the facility is open to the public to perform inspection and monitoring functions. Inspection and monitoring at the Antimony Town Class IV b Landfill / Dead Animal Pit will be conducted in two components, (1) routine and (2) compliance. Routine inspections will be conducted on each incoming load of material as it enters the facility and is

deposited to prohibit receipt of unacceptable wastes. In addition, random checks will be made during deposition, spreading, and covering operations to insure protection of the environment and absence of nuisances. Waste screening inspections will be made by trained personnel, operational inspections will be made by supervisory landfill personnel.

Compliance inspections will be conducted quarterly to assess the integrity of cover, the condition of side slopes and vegetative cover, and the impacts of erosion. In addition, the detailed annual inspection will include a review to verify compliance with all permit conditions and state and federal regulations. All inspection records will be kept at the Antimony Town Office for a minimum of 3 years.

FIRE / EXPLOSION CONTINGENCY PLAN

In the event of a fire or an explosion that prohibits deposition of incoming waste, the landfill will be closed, and incoming waste will be diverted to an alternate facility. Alternate facilities may include other permitted Class IV b landfills in the area, the John's Valley Landfill, the Wayne County Landfill, the Long Valley Landfill, or other future landfill facilities. Upon resolution of the unexpected event, the facility will be reopened.

CORRECTIVE ACTION FOR CONTAMINATED GROUNDWATER

This section describes corrective actions to be taken by owners and operators of the Antimony Class IVb Landfill to regain compliance with protective levels of the permit in the event releases are discovered and acceptable concentration limits for groundwater are exceeded. No monitoring wells are proposed for the Antimony Class IVb Landfill. However, if the concentrations of parameters in down gradient wells exceed the acceptable concentration limits as substantiated by confirmatory analyses, owners and operators of the Antimony Class IVb Landfill will implement a corrective action program as outlined in Rule 315-308.

CONTINGENCY PLAN FOR OTHER RELEASES

This section describes corrective actions to be taken by the Antimony Class IV Landfill to regain compliance with the protection levels of the permit in the event releases are discovered and acceptable concentration limits are exceeded.

When the concentration of parameters exceeds acceptable limits as substantiated by confirmatory analyses, owners and operators of the Antimony Class IVb Landfill will implement a corrective action program approved by the Executive Secretary.

EQUIPMENT MAINTENANCE

Active collection systems for leachate and/or explosive gases are not proposed for the Antimony Class IVb Landfill. Therefore, no maintenance will be required for these items. Maintenance of the equipment used in day to day operations will be performed by landfill employees or contracted mechanics in accordance with manufacturer recommendations and industry practices.

EXCLUSION OF HAZARDOUS WASTE

As a Class IVb Landfill, the Antimony facility is in a favorable position regarding exclusion of hazardous waste. Generally, all waste will be delivered by local, known generators and the waste will be observed as it is deposited. During periods the landfill is open to the public, at least one percent of the vehicles and other suspicious loads will be directed to dispose of their material near the working face in a manner that permits inspection. The waste generator will be detained while the load is inspected, if unacceptable hazardous substances are encountered, appropriate authorities will be contacted. Considering the population served, waste volumes generated, and complexity of the solid waste stream, these measures are considered to be adequate.

A section documenting the results of the formal inspections outlined above has been included as part of the daily record forms (Exhibits 8 & 9). Including hazardous/PCB waste records on the daily record forms will allow landfill manager to incorporate inspections into their daily routine and will permit regulators to review inspection patterns efficiently while examining waste volumes.

DISEASE VECTOR CONTROL

The waste accepted at a Class IVB Landfill should not attract possible disease vector animals. The primary method for disease vector control at the Antimony Class IVb Landfill will be limiting wastes to those types approved by the permit and providing an appropriate cover as needed to prevent fires. The cover consists of a 6-inch minimum layer of earthen material over dead animals or an alternate cover approved by the Secretary.

Rodents and other vermin will not be permitted to burrow in the active area of the landfill, and trapping or extinction methods will be implemented to protect the integrity of the disease vector control program.

ALTERNATIVE DISPOSAL

Alternative waste handling procedures for periods when the landfill is not in operation will be similar to procedures for fires and explosions. Waste will be diverted to alternate disposal sites. Alternate facilities may include other permitted Class IVb Landfills in the area, the John's Valley Landfill, the

Wayne County Landfill, the Sevier County Landfill or other future landfills. Procedures will continue in this manner until operations at the landfill can return to normal.

CLOSURE / POST CLOSURE

Closure of active portions of the Antimony Class IVb Landfill contemplates controlling, minimizing and eliminating threats to human health and the environment from post-closure escape of solid waste constituents, leachate, landfill gases, contaminated runoff, or waste composition products of the ground, groundwater, surface water and the atmosphere. When an area of the landfill reaches final elevation, it will be covered within 2 months with 12 inches of intermediate cover and graded to promote drainage.

The surface shall be free from ponding and shall minimize infiltration. Not more than 4 months after completion of the intermediate cover, the area will be covered with a minimum of 24 inches of earthen material including 6 inches of material capable of supporting vegetative growth. Following final closure, Antimony Town will submit to the Executive Secretary modified plan sheets representing changes resulting from final closure and certification that the unit has been closed in accordance with the approved closure plan.

Post-closure care of inactive sections of the landfill will consist of maintaining the integrity of the final and vegetative covers. Any areas subject to erosion will also be corrected, and appropriate measures will be implemented to identify and eliminate the source. Groundwater monitoring, leachate collection, and gas collection are not proposed for the Antimony Class IVb Landfill. Therefore, closure and post/closure activities associated with these functions will not be performed. Semi-annual monitoring of inactive sections of the landfill will continue for 30 years or as long as deemed necessary by the Executive Secretary. At the end of the monitoring period, Antimony Town will certify to the Executive Secretary that the required monitoring has been completed and state why additional monitoring is no longer necessary. Upon inspection and approval, the Executive Secretary will authorize that post-closure care may be discontinued.

TRAINING AND SAFETY PLAN

Each landfill operator and employee is required to read the landfill application and permit prior to assuming duties related to landfill operations. Safety procedures will conform to OSHA guidelines, and personnel will be encouraged to participate in additional landfill management, waste screening, safety, and first aid workshops.

RECYCLING

Recycling means extracting valuable materials from the waste stream and remanufacturing them into useable products. Technical recycling expertise is not available and reliable recycling markets do not

exist for solid waste disposed of at the Antimony Class IVb Landfill. In an effort to promote source reduction and future recycling, large appliances, car bodies, and some ferrous metals will be stored on site until they can be transported to an appropriate recycling/salvage facility. Compostable material may be diverted to area designated for mulching. However, no formal recycling or remanufacturing program is being implemented at this facility.

ACCESS CONTROL AND ON-SITE PERSONNEL

A four strand barbed wire fence surrounds the accessible portions of the active cell and any closed areas, with a lockable gate providing a main entrance to the facility. The absence of any roads and existing topography surrounding the site eliminate the possibility of unauthorized vehicular traffic. Scavenging within the landfill will not be permitted. Litter will be collected periodically by landfill personnel to prevent a fire hazard and an aesthetic nuisance.

Landfill personnel will be on site during all hours the facility is open to the public. The schedule for the operation of the Antimony Class IVb Landfill is:

SATURDAYS 12 00 p m – 4 00 p m **WEEKDAYS** By appointment only

Authorized collection vehicles operated by personnel under contract with the landfill and containing construction waste, yard waste, dead animals or waste tire material may be entering the landfill when the facility is not open to the public. Waste will not be accepted from the public during these periods. The Town intends to revise the scheduled operation of the landfill as the need arises and solid waste volumes dictate.

USAGE FEES AND REVENUE

The Antimony Class IVb Landfill will be operated by Antimony Town. All revenues generated from the operation of the landfill will be used exclusively for the management of the facility.

MAINTENANCE OF RECORDS

All records of the landfill operation will be maintained in the Antimony Town Office located in the Community Center, 120 N Main Street.

PRELIMINARY ENGINEERING REPORT

UNIT DESIGN

Designs complying with the requirements of R315-310-3 and depicting the boundaries of the landfill unit, borrow and fill areas have been included as Exhibits 6a-6c. Groundwater monitoring wells and landfill gas monitoring points are not required for Class IV b landfills and do not appear on the maps.

Current unit designs utilize trench style deposition. Trenches are excavated 2 to 6 ft wide to the maximum depth capable of the excavation equipment (approximately 10 ft). Future designs may incorporate above ground deposition with maximum fill heights of 12 ft and side slopes of 4:1 or flatter.

RUN-ON/RUN-OFF CONTROL

Antimony Town will control the run-on and run-off resulting from the 25-year event from contacting solid waste and leaving the landfill. This will be accomplished through a series of best management practices. Each cell will be surrounded with berm style stockpiling of excess excavated material. The berms will vary in height and will prevent unanticipated flow of surface waters into the active areas of the facility.

In addition to the berms, additional measures including ditches and contouring will be implemented to direct surface drainage to desired areas.

FACILITY LIFE

It is anticipated that facility life will coincide with the 10 year life of the permit. Approximately 1/2 of the available property has been used during the previous 10 to 15 years.

LOCATION STANDARDS

The Antimony Town Landfill facility complies with location standards as outlined in R315-305-4(d)(1).

BORROW SOURCES

All borrow for the Antimony Class IVb Landfill will be obtained from inside the facility's property boundaries. Adequate material exists for daily and final covers. If, for some reason, adequate material becomes unavailable, Antimony Town will use other sources within its control.

RUN-OFF COLLECTION, TREATMENT AND DISPOSAL

There are no active collection, treatment or disposal systems planned for the Antimony Class IVb Landfill. Best management practices will be employed to prevent the development of run-off.

CLOSURE / POST CLOSURE PLAN

CLOSURE SEASON AND YEAR

Closure operations at the Antimony Class IV b Landfill / Dead Animal Pit will be performed on an ongoing basis. Adequate capacity exists at the landfill to continue operation for the life of the permit. A final closing date cannot be determined at this time. Ongoing closure operations will generally be performed from May through October, the normal frost free construction period, or as weather permits. No area larger than ¼ acre that has achieved final elevation will remain open longer than 6 months.

FINAL COVER

Closure operations will consist of leveling, contouring, placement of appropriate covers as necessary to reduce infiltration and preserve the integrity of the completed areas of the landfill. Areas of the landfill reaching final elevation will be closed within 6 months. Closure operations will include leveling and contouring using intermediate cover to reduce infiltration and ponding. Excess material may be stripped and utilized in other operations or left in place. After grading operations promoting drainage are complete, earthen material which increases the total cover depth to 2 feet will be installed. Upon completion of the covering operations, closed areas may be seeded. Any seed mixture shall be developed after consultation with local range specialists and verifying availability of local seed markets. Recently closed sections of the landfill will be evaluated as part of the quarterly inspection process and will be placed on post closure status.

SITE CAPACITY

Site capacity for the entire Antimony Class IVb Landfill is estimated to be 135,000 tons. Assuming the initial 10 acre parcel, trench style operation (40 ft bottom width, 4:1 side slopes, 30 ft depth) three 8.5 ft lifts of waste with 1.5 foot intermediate cover, and an average density of 900 lbs per cubic yard, waste volumes can be estimated at 300,000 cubic yards or 135,000 tons.

FINAL INSPECTION

The Antimony Class IV b Landfill / Dead Animal Pit is anticipated to operate throughout the life of this permit. At least 60 days prior to any closure, the Division of Solid and Hazardous Waste will be contacted, and a final inspection will be scheduled. The Executive Secretary will be informed of the incremental closure of individual cells through routine state inspections, annual reports, and renewal applications. In addition, a QA/QC plan will be submitted for approval prior to any closure operations.

Within 90 days of unit and / or facility closure, as built plans signed by a professional engineer shall be forwarded to the Executive Secretary

Landfill owners and operators shall allow the Executive Secretary of the Utah Solid and Hazardous Waste Control Board or an authorized representative, including representatives from the Local District Health Department, upon representation of credentials, to enter during operation hours and / or inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under this permit

A record of the inspection may be made by photographic, videotape, electronic or other reasonable means, and a copy of any such record shall be provided to the owner and the operator within a reasonable time

LAND TRANSFERS AND USES

Plats and a statement of fact concerning the location of any disposal site shall be recorded as part of the record of title with the County Recorder not later than 60 days after certification of closure Upon recording, proof of the record of filing will be submitted to the Executive Secretary

POST CLOSURE MAINTENANCE

Post-closure care of inactive sections of the landfill will consist of maintaining the integrity of the final cover Any areas subject to erosion will be corrected, and appropriate measures will be implemented to identify and eliminate the source No active or technical devices are proposed for use at the Antimony Town Class IV b Landfill / Dead Animal Pit Best management practices will be implemented to minimize infiltration and assure the integrity of the run-on / run-off system Evaluation of the system will be made during the quarterly inspections, and corrective measures, in any, will be implemented Closed portions of the landfill will be inspected as part of the quarterly reviews performed by the landfill operator Closed areas will also be inspected as part of the in-depth annual inspection Any deficiencies will be repaired as soon as practical

No alternate land use for closed sections has been developed to date Closed cells will remain under the jurisdiction of Garfield County If alternate land use plans are developed they will be addressed during the permit renewal process, or a separate permit modification may be processed

RESPONSIBLE PARTIES

The applicant, property owner, and responsible party for the post closure care period is

Antimony Town
PO Box 120046
Antimony, UT 84712
Phone (435) 624-3300

It should be noted Antimony Town is continually upgrading solid waste management services. Future agreements, potential special service district creation, the extended life of the landfill, and alternate ownership / operation scenarios may require modification of this section of the permit. In addition, the Town may contract site operations with private entities. Antimony Town will notify the Executive Secretary of any changes in responsible party status at least 30 days prior to their effective date. Other changes to the information listed above will be provided in annual reports and permit renewal documents.

FINANCIAL ASSURANCE PLAN

INTRODUCTION

This section of the permit describes compliance with Subsection R315-310(3)(i), Financial Assurance of the Administrative Rules for Solid Waste Permitting and Management. Cost estimates consider the most expensive option during the period and are based on a third party performing closure and post closure care.

MECHANISMS

Antimony Town has established a dedicated escrow / capital improvement account through the State Treasurers Office for the Antimony Class IVb Landfill. The balance of the establish closure fund adequately covers the estimated cost for the Landfill Closure.

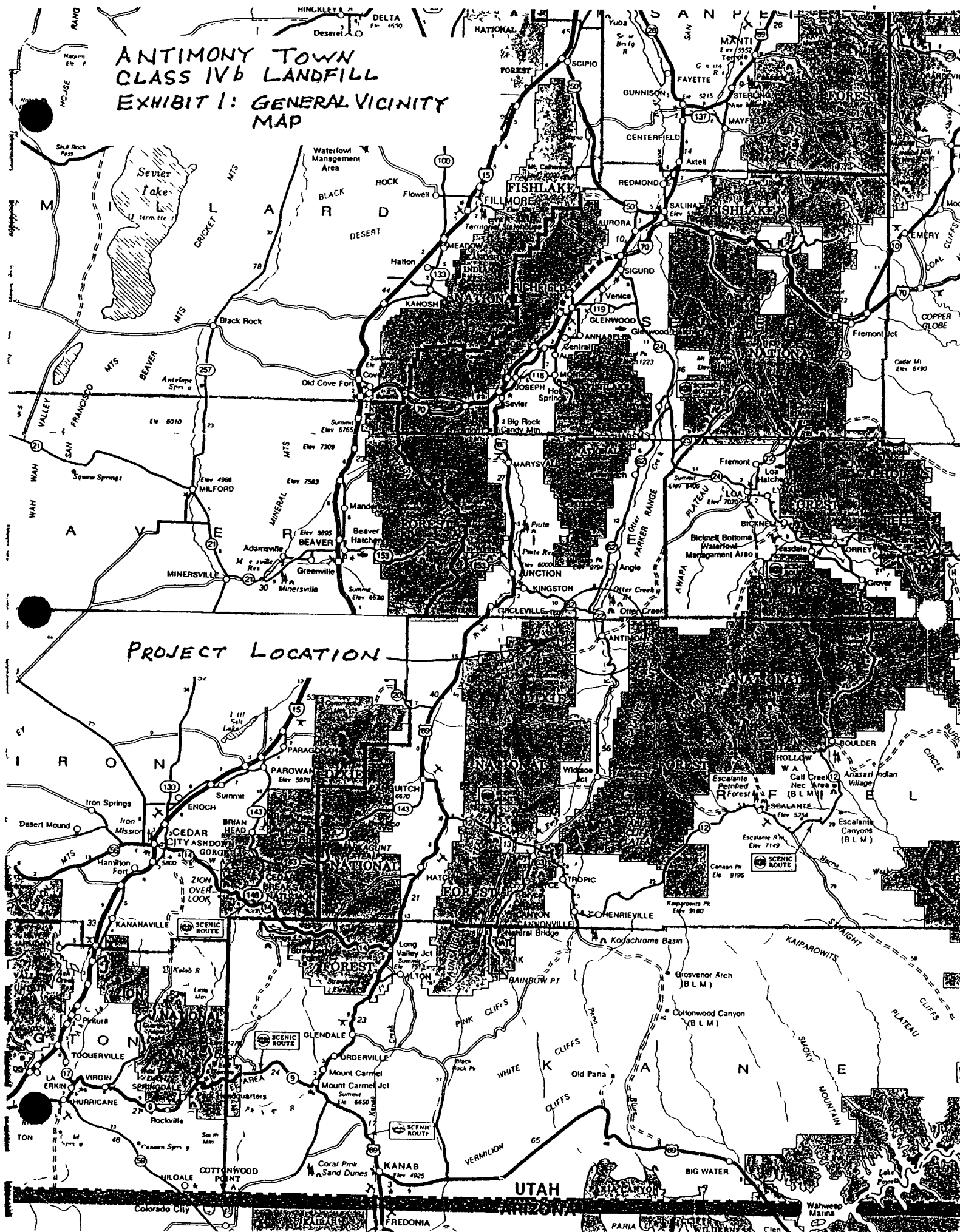
COST ESTIMATES

Cost estimates were developed considering the maximum amount of earthen material required to fill the three active pits. The combined material would be approximately 1900 cubic yards which is maintained adjacent to each pit location. Final coverage would consist of pushing this material into the adjacent pit. Following coverage, an area of approximately 700 square yards would have to be revegetated. Using projections of a third party to perform the work, it is estimate that the cost to complete this project would be less than \$2,000.00 allowing for contingencies. Estimated costs are described below.

Fill open pits (4 hours @ \$75/hour)	\$300.00
Cover area with appropriate material	
Material cost (165 cu yds) soil	\$200.00
Load Material (5 hours @ \$45/hr)	\$225.00
Haul 165 yards (4hours @ \$50/hr)	\$200.00
Spread material (4hours@ \$75/hr)	\$300.00
Revegetate Area	
Seed	\$150.00
Spread Seed (4hours@ 100/hr)	\$400.00
Post Closure Care	
Annual Inspections for 30 years	\$6,000.00
Anticipated repairs	\$2,000.00
<hr/>	
TOTAL	\$ 9,775.00

*Note Bid was prepared by contractor Todd Hall PO Box 120016 Antimony, UT 84712 (435) 624-3307

ANTIMONY TOWN
CLASS IVb LANDFILL
EXHIBIT 1: GENERAL VICINITY
MAP



ANTIMONY TOWN
CLASS IVb LANDFILL
EXHIBIT 2: PROJECT
LOCATION MAP

PROJECT LOCATION

Antimony

Antimony Cem

Antimony Wash

Dry Wash

East Fork

Antimony Fork

Antimony Canyon

Antimony Creek

Antimony River

Antimony Lake

Antimony Pond

Antimony Dam

Antimony Bridge

Antimony Ferry

Antimony Mill

Antimony Mine

Antimony Quarry

Antimony Lumber Mill

Antimony Sawmill

Antimony Paper Mill

Antimony Textile Mill

Antimony Steel Mill

Antimony Glass Mill

Antimony Brick Works

Antimony Pottery Works

Antimony Foundry

Antimony Machine Shop

Antimony Blacksmith Shop

Antimony Carriage Works

Antimony Blacksmith Shop

Antimony Carriage Works

Antimony Blacksmith Shop

Antimony Carriage Works

PROJECT LOCATION

The United States of America

To all to whom these presents shall come, Greeting

Utah 71137-03

WHEREAS,

Antimony Town, Utah

is entitled to a land patent pursuant to the Recreation and Public Purposes Act of June 14, 1926 (44 Stat 741), as amended and supplemented (43 U S C 869, et seq), for the following described land

Salt Lake Meridian, Utah

T 31 S , R 2 W ,

sec 10, NW¼SE¼SE¼

containing 10 00 acres

NOW KNOW YE, that the UNITED STATES OF AMERICA, in consideration of the premises, and in conformity with said Act of Congress, HAS GIVEN AND GRANTED, and by these presents DOES GIVE AND GRANT unto the said Antimony Town, Utah, the land above described for use as a solid waste transfer station TO HAVE AND TO HOLD the same, together with all rights, privileges, immunities, and appurtenances, of whatsoever nature, unto belonging, unto the same Antimony Town, Utah, forever, and

EXCEPTING AND RESERVING TO THE UNITED STATES

- 1 A right-of-way thereon for ditches or canals constructed by the authority of the United States Act of August 30, 1890 (43 U S C 945)
- 2 All minerals, including oil and gas, with the right to prospect for, mine and remove the same The Secretary of the Interior reserves the right to determine whether such mining and removal of minerals will interfere with the development, operation and maintenance of the transfer station

Antimony Town, Utah, its successors or assigns assumes all liability for and shall defend indemnify, and save harmless the United States and its officers, agents, representatives, and employees (hereinafter referred to in this clause as the United States), from all claims, loss damage, actions, causes of action, expense, and liability (hereinafter referred to in this clause as claims) resulting from, brought for, or on account of, any personal injury threat of personal injury, or property damage received or sustained by any person or persons (including the patentee's employees) or property growing out of, occurring, or attributable directly or indirectly, to the disposal of solid waste on, or the release of hazardous substances from T 31 S , R 2 W , SLM, sec 10, NW¼SE¼SE¼, regardless of whether such claims shall be attributable to (1) the concurrent, contributory, or partial fault, failure, or negligence of the United States, or (2) the sole fault, failure, or negligence of the United

Notes

ANTIMONY TOWN
CLASS IVb LANDFILL

EXHIBIT 3: PROPERTY
PATENT

43-95-0018

Item Number

TRUSTEE.
A-23
149 70 Ac

ANTIMONY TOWN
CLATS IYB LAILFILL
EXHIBIT 1
-LAT

2640'

AIRPORT
RUNWAY

CEDAR LAND TITLE, INC.
TRUSTEE.
A-38
114 76 Ac

1320'

1320'

1320'

N55°53'39"E 657.34'

ANTIMONY TOWN
A-38-1
9 99 Ac

(S)

N0 09'01"W 662.89'

S0 04'31"E 662.16'

S88°49'46"W 656.49'

1320'

U.S.A.

466 15'

LEWIS KIRT,
ROBINSON
A-14
4 99 Ac

466 13'

466 13'

820 87'

U.S.T.C.
PROVAL

PLAT DEPARTMENT

ANTIMONY TOWN

BOOK PAGE

GARFIELD COUNTY, UTAH

SECTION 10 T.31S. R.02W.

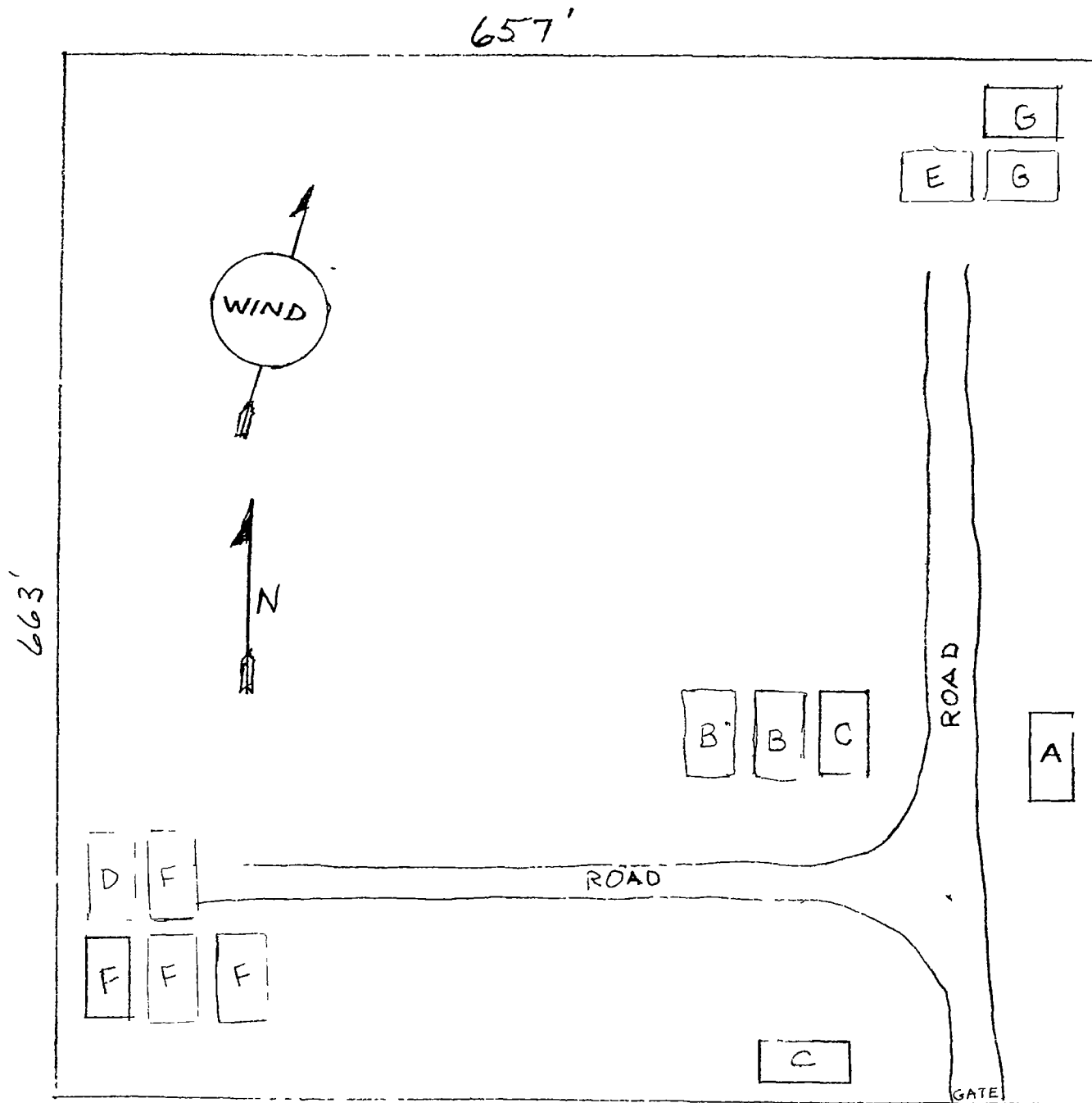
A-3

DRAWN BY L.B

DATE 0-96

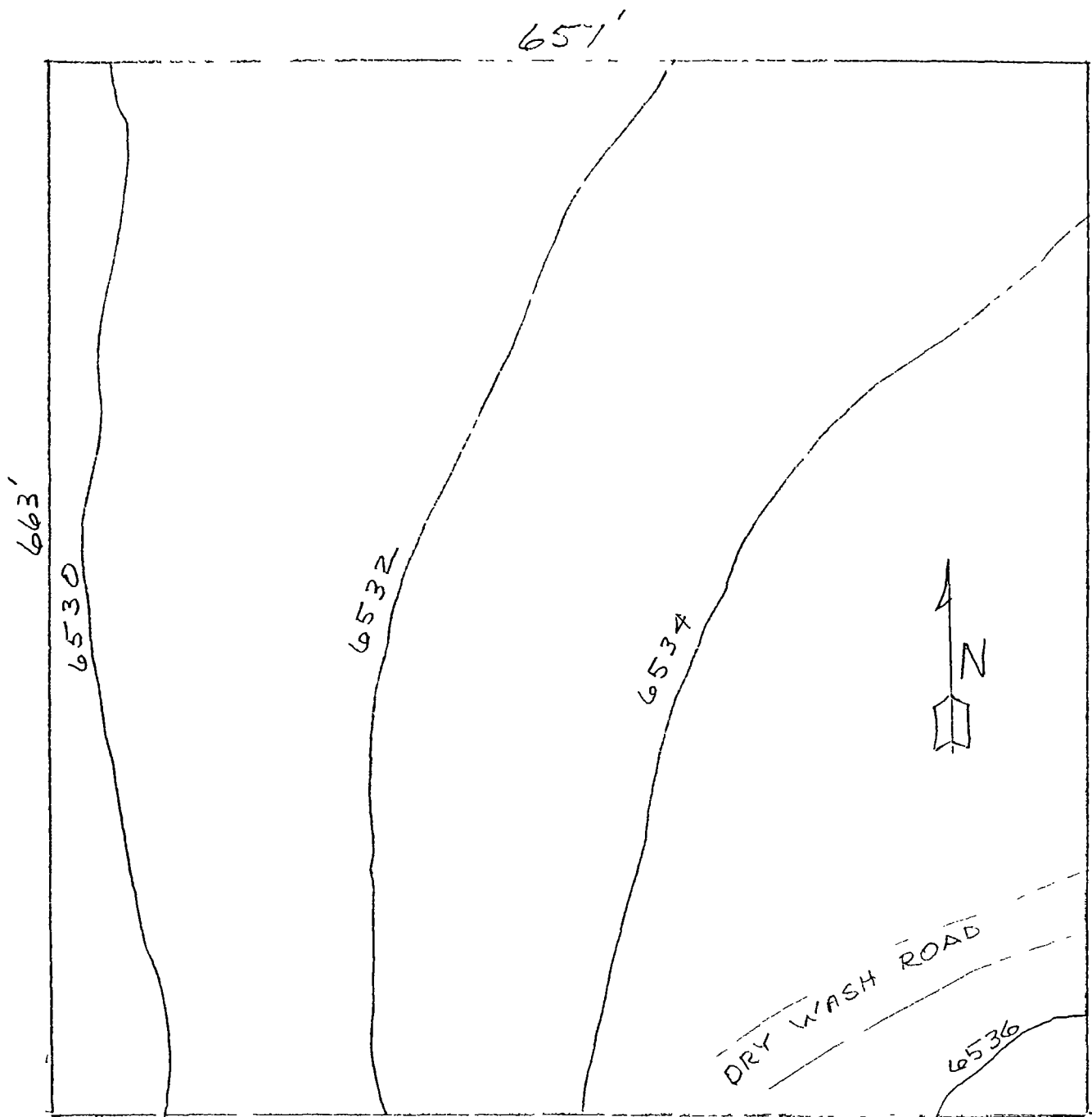
SCALE 1"=400'

ANTIMONY TOWN
CLASS IVb LANDFILL
Exhibit #5 CURRENT LANDFILL STATUS



Scale 1 in = 100 ft

- A = Metal Storage (30' X 60') (200 sq yds)
- B = Clean Green Yard Waste (10' X 50') (55 sq yds)
- C = Previously Used Yard Waste (10' X 50') (55 sq yds)
- D = Construction / Demolition Waste (10' X 50') (55 sq yds)
- E = Dead Ammal Pit (10' X 30') (33 sq yds)
- F = Previously Used Demolition Waste (10' X 50') (55 sq yds)
- G = Previously Used Dead Ammal Pit (10' X 30') (33 sq yds)

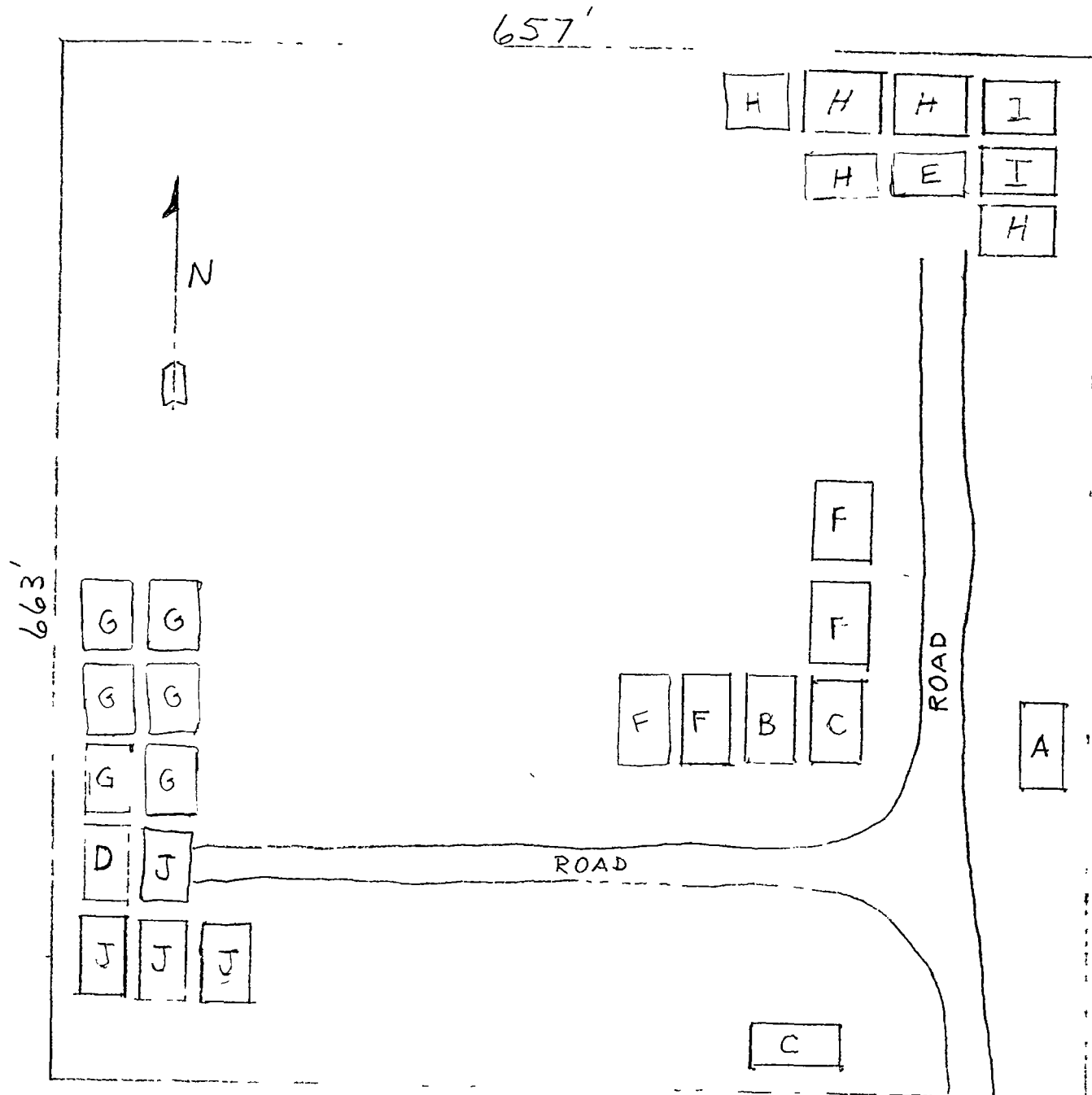


ANTIMONY TOWN
 CLASS Vb LANDFILL
 TOPOGRAPHIC SKETCH
 1" = 100'

APPROX SCALE - 1" = 100'
 DATE: JUNE 2001
 L.A. 137
 100' X 70' 50"

EXHIBIT 6

ANTIMONY TOWN
CLASS IVb LANDFILL
Exhibit #7 FUTURE DEVELOPMENT



Scale 1 in = 100 ft

- A = Metal Storage (30' X 60') (200 sq yds)
- B = Clean Green Yard Waste (10' X 50') (55 sq yds)
- C = Previously Used Yard Waste (10' X 50') (55 sq yds)
- D = Construction / Deruolition Waste (10' X 50') (55 sq yds)
- E = Dead Animal Pit (10' X 30') (33 sq yds)
- F = Future Yard Waste Site (10' X 50') (55 sq yds)
- G = Future Construction Waste Site (10' X 50') (55 sq yds)
- H = Future Dead Amrual Site (10' X 30') (33 sq yds)
- I = Previously Used Dead Animal Pit
- J = Previously Used Construction Demolition Pit

[illegible]

ANTIMONY CLASS IV b LANDFILL / DEAD ANIMAL PIT
Exhibit 8 – Daily Record Form / Disposal Record

ANTIMONY TOWN CLASS IVb LANDFILL
HAZARDOUS WASTE - PCB INSPECTION RECORD

Date _____ Time _____ Vehicle No _____

Random Selection (Yes / No) Suspicious Load (Yes / No) Other _____

Vehicle Owner _____

Name

Address

City, State

Phone

Waste Orig. _____

Waste Types _____

Describe any hazardous or PCB wastes encountered: _____

Action Taken _____

Comments _____

If hazardous waste or PCB waste is encountered, contact the Division of Solid and Hazardous Waste at (801) 538-6170

Signature _____ Date _____

Antimony Town Class IVb Landfill
Exhibit 9: Hazardous/PCB Waste Record Form

Antimony Town Class IV b Landfill / Dead Animal Pit
Quarterly Inspection Log

Date _____ Time _____ Weather _____

Inspection

Team _____

Observations _____

Date and Nature of Corrective Action

Other

Training Procedures Completed

Major Deviations from Plan of Operation

Name of Inspector

Signature

This form shall be kept on site (or at the Antimony Community Center Town Office) for a minimum of 3 years

ANTIMONY TOWN CLASS IV b LANDFILL / DEAD ANIMAL PIT
Exhibit 10 – Quarterly Inspection Log